XBS104S13



ETR1608-002

Schottky Barrier Diode, 1A, 40V Type

FEATURES

Forward Voltage : V_F=0.49V (TYP.)

Protection against reverse connection of battery **Forward Current** : I_{F(AV)}=1A

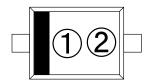
Repetitive Peak Reverse Voltage: V_{RM}=40V

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT	
Repetitive Peak Reverse Voltage	VRM	40	V	
Reverse Voltage (DC)	VR	40	V	
Forward Current (Average)	lF(AV)	1	Α	
Non Continuous	IFSM	10	Α	
Forward Surge Current *1	II SIVI	10	ζ	
Junction Temperature	Tj	125		
Storage Temperature Range	Tstg	-55 ~ +150		

^{*1 :} Non continuous high amplitude 60Hz half-sine wave.

MARKING RULE

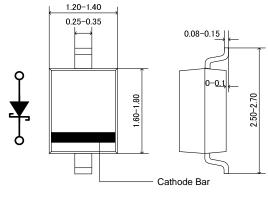


- ①: 1 (Product Number)
- 2: Assembly Lot Number

APPLICATIONS

Rectification

PACKAGING INFORMATION





PRODUCT NAME

PRODUCT NAME	DEVICE ORIENTATION	
XBS104S13	R : Embossed tape, standard feed	

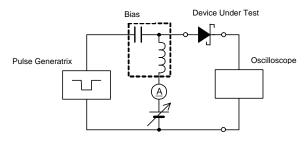
Please put the device orientation type "R".

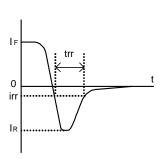
ELECTRICAL CHARACTERISTICS

Ta=25

						1u-20
PARAMETER SYME	CVMPOL	TEST CONDITIONS	LIMITS			UNIT
	STIVIBUL		MIN.	TYP.	MAX.	UNIT
Forward Voltage ——	VF1	I _F =100mA	-	0.34	=	V
	VF2	I _F =1A	-	0.49	0.54	V
Reverse Current	lr	V _R =40V	-	4	200	μA
Inter-Terminal Capacity	Ct	$V_R=10V$, $f=1MHz$	-	35	-	pF
Reverse Recovery Time *2	trr	I _F =I _R =10mA , irr=1mA , R _L =100	-	25	=	ns

^{*2 :} trr measurement circuit

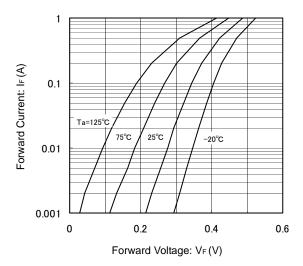




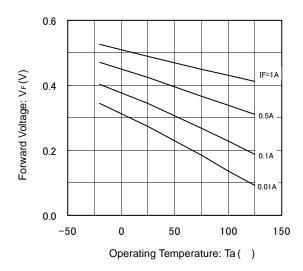
WWW

TYPICAL PERFORMANCE CHARACTERISTICS

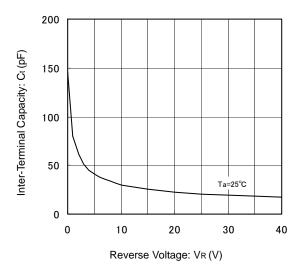
(1) Forward Current vs. Forward Voltage



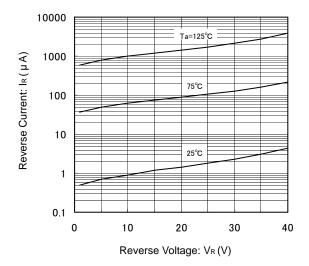
(3) Forward Voltage vs. Operating Temperature



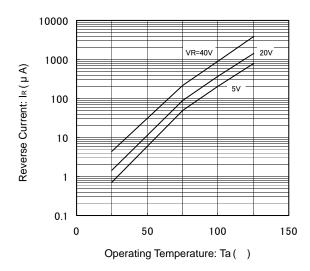
(5) Inter-Terminal Capacity vs. Reverse Voltage



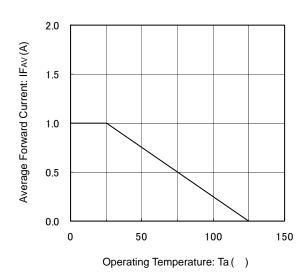
(2) Reverse Current vs. Reverse Voltage



(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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